Prem Ganwani

Java Backend Developer — Spring Boot — Microservices

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Professional Summary

Java Backend Developer with nearly 2 years of experience building and operating Spring Boot microservices for multi-tenant SaaS platforms. Improved system reliability by reducing production downtime by 30% (measured over two quarters) and decreased lock contention by 90% through thread-dump analysis and load testing. Strong in concurrency, MySQL performance tuning, and backend reliability engineering.

Technical Skills

Languages: Java (8+), SQL
Backend: Spring Boot, Spring MVC, Hibernate, JPA, JDBC
Security: Spring Security, JWT, OAuth2, Role-Based Access Control
Databases: MySQL, Indexing, Query Optimization, Transaction Management, Flyway
Concurrency & Performance: Thread safety, synchronization optimization, HikariCP tuning, JVM thread-dump analysis, Apache JMeter load testing
Architecture: Microservices, Multi-tenant systems, SOLID principles
Tools: Docker, Git, Maven, Gradle, Linux
Testing: JUnit, Mockito

Professional Experience

Java Backend Developer   Apr 2024 – Present
Graviton (Kugelblitz Pvt. Ltd.), Jaipur

- Developed and optimized core backend microservices serving 20+ tenants and handling up to approximately 100 requests per second at peak load.
- Diagnosed and resolved HikariCP connection lifecycle issues by redesigning DataSource management; connection failures reduced from approximately 15 per day to fewer than 1 per day over a 2-month period based on production logs.
- Identified and refactored high-contention synchronized code paths in a critical service; lock contention reduced by 90%, validated through JVM thread-dump analysis and Apache JMeter load tests under peak traffic.
- Optimized MySQL queries and indexing strategies for high-traffic tables, improving average query response time by 20% based on profiling and execution plan analysis.
- Conducted structured root-cause analysis of production incidents across API and database layers, contributing to a 30% reduction in overall system downtime over two consecutive quarters.
- Introduced Flyway-based schema versioning to standardize database migrations across development and production environments.
- Performed code reviews, owned release validation for backend services, and mentored interns on API design and unit testing practices.

Software Development Intern   Sep 2023 – Jan 2024
Datansh Solutions Pvt. Ltd., Jaipur

- Designed and developed a Human Resource Management System (HRMS) using Spring Boot and Hibernate with MySQL as the backend database.

- Implemented core modules including employee management, leave tracking, attendance management, and role-based access control for HR and administrative users.
- Designed normalized relational database schemas and implemented transactional workflows to maintain data integrity and consistency.
- Implemented JWT-based authentication and authorization using Spring Security to secure REST APIs and enforce role-based access control.
- Developed RESTful APIs with pagination and filtering support to efficiently manage large employee datasets.
- Implemented server-side validation and structured exception handling to improve robustness and reduce invalid data submissions.
- Collaborated with frontend developers using Git-based workflows, participated in code reviews, and contributed to sprint planning discussions.
- Wrote unit tests using JUnit and Mockito to validate business logic and improve overall code reliability.

Projects

e-Garage — Vehicle Service Platform
Java, Spring Boot, MySQL, JWT, Docker

- Designed and built backend services supporting customers, service vendors, delivery partners, and administrators.
- Implemented secure authentication and authorization flows using JWT and role-based access control.
- Modeled relational database schema and structured transactional workflows for booking lifecycle management.
- Ensured reliable concurrent booking handling through stateless API design and optimized database access patterns.
- Containerized the application using Docker to enable consistent development and deployment environments.

Education

Bachelor of Computer Science and Engineering   2020 – 2024
Global Institute of Technology, Jaipur   CGPA: 8.6/10